| | Application No. | Applicant(s) | | |
|---|---|--|----------------------------------|--|
| Al-4" | 09/903,302 | MITCHELL, MAT | MITCHELL, MATTHEW P. | |
| Notice of Allowability | Examiner | Art Unit | | |
| | Nihir Patel | 3743 | | |
| The MAILING DATE of this communication ap, All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3 | S (OR REMAINS) CLOSED (5) or other appropriate comm RIGHTS. This application is | in this application. If not incountries in the incountries applied in the interest in the inte | luded lue course. THIS | |
| 1. This communication is responsive to 03.29.2004. | | | | |
| 2. The allowed claim(s) is/are 2,4,6,8,10 and 12-20. | | | | |
| 3. \square The drawings filed on <u>07.10.2001</u> are accepted by the Ex | kaminer. | | | |
| 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents hat 2. Certified copies of the priority documents hat 3. Copies of the certified copies of the priority of International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which git including changes required by the Notice of Draftsper 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR | ve been received. ve been received in Application to file the communication to file the communication to file the communication to file the communication. mitted. Note the attached EX ves reason(s) why the oath communication to file the communication | on No ed in this national stage app e a reply complying with the AMINER'S AMENDMENT of or declaration is deficient. w (PTO-948) attached or in the Office action of | requirements or NOTICE OF | |
| each sheet. Replacement sheet(s) should be labeled as such in 7. DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN | the header according to 37 Coosit of BIOLOGICAL MAT | FR 1.121(d). ERIAL must be submitte | | |
| | | | | |
| Attachment(s) | 5 □ Nation of I | eformal Datant Application (| DTO 152) | |
| Notice of References Cited (PTO-892) Description Notice of Draftperson's Patent Drawing Review (PTO-948) | | nformal Patent Application (l Summary (PTO-413), | 10-102) | |
| 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB | Paper No. | ./Mail Dates Amendment/Comment | | |
| Paper No./Mail Date <u>07.10.2001</u> 4. ☐ Examiner's Comment Regarding Requirement for Deposit | 8 ⊠ Examiner's | s Statement of Reasons for . | Allowance | |
| of Biological Material | 9. ☐ Other | // | | |
| | / | Henry Bydnett Supervisory Fyrent Exa Gyyp 3700 | miner | |

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DETAILED ACTION

Election/Restrictions

The examiner agrees with the applicant in response to the taxonomy of species and acknowledges the applicant's decision to provisionally election to proceed with claims 2 and 13 (figures 6A, 6B, 8A, 8B, 9A, 9B, 9C, 10A, 10B, and 11) and dependent upon claims 2 and 13 (claims 4, 6, 8, 10, 12, and 14-20).

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Matthew P. Mitchell on October 7th, 2004.

The application has been amended as follows: In order to consider the application for allowance claims 1, 3, 5, 7, 9, and 11 are cancelled.

Reason for Allowance

The following is an examiner's statement of reasons for allowance: Claims 2, 4, 6, 8, 10, 12, and 13 through 20 (re-numbered claims 1 through 14) of application number 09/903,302 are allowable over the prior art of record in that the regenerator comprises multiple layers of foil, an improvements comprising a layer of foil containing a multiplicity of continuous grooves on a first surface thereof and a multiplicity of grooves on a second surface thereof wherein the grooves on the first surface are slanted relative to the overall direction of flow in the regenerator;

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and wherein the grooves on the second surface are slanted relative to the overall direction of flow regenerator, and wherein the grooves on the first surface intersect the grooves on the second surface, and wherein the intersections of the grooves on the first surface and the grooves on the second surface comprise holes in the layer of foil.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nihir Patel whose telephone number is (703) 306-3463. The examiner can normally be reached on 7:30 to 4:30 every other Fridays off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Henry Bennett can be reached on 703-308-0101. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-fee).

NP October 13th, 2004

Henry Vennett Supervisory (Atent Examiner